JOINT ASTRONOMY & PARTICLE PHYSICS COLLOQUIUM

پژوهشگاه دانش‌های بنیادی (مرکز تحقیقات فیزیک نظری و ریاضیات)
IPM
INSTITUTE FOR RESEARCH IN FUNDAMENTAL SCIENCES

Extra-terrestrial neutrinos as a window towards new physics

Speaker: **Dr. Yasaman Farzan**

School of Physics, IPM

Abstract:

The current neutrino telescopes, ICECUBE and KM3NeT, have ushered in a new era for the fields of particle physics and astrophysics, bringing these two communities closer together and urging further dialogue between these fields. I will start with a short review of the possible sources of extra-terrestrial neutrinos. I will then review the results from these telescopes as well as the prospect of their upgrade and construction of new neutrino telescopes. I will emphasize the serendipity nature of research in this field, with the frenzy of activity following the famous KM3-230213A event as an example. In the end, I will briefly review our paper explaining this unusual and unexpected event which defies a standard model explanation.

Held in hybrid format

Date: Wednesday, Feb 18, 2026 (Bahman 29, 1404)
Time: 12:30pm – 1:30pm
Location: Seminar Room School of Particles and Accelerators, IPM, Larak Building, Tehran

More Information

astro@ipm.ir, particles@ipm.ir
https://indico.hep.ipm.ir/e/Y.Farzan

Link to join virtually: https://www.skyroom.online/ch/ipm-particles/special-seminar